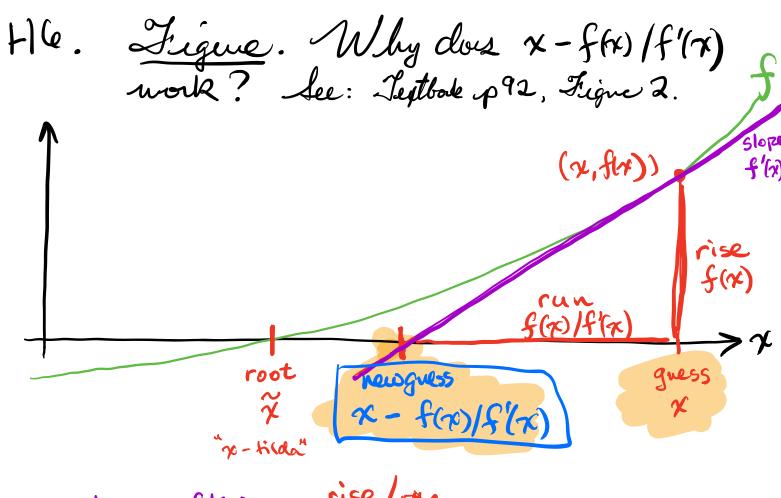
H. Lat 8. Neuton Method H1. Example. Algebraically
find the root of $f(x) = x^3 - 10$ (some $f(x) = x^3 - 10 = 0$). $f(x) = x^3 - 10 = 0$ 7 = 3/10 22.1544 H2. Former. Neutois Method x-f(x)/f'(x) H3. Example. Use Menteur Method to estude the root of f(x): x3-10. Jake a gress frith root: x=(2) Capply Neutois Method. x-f(x)/f(x) new x $f(x) = x^3 - 10$ f(2) = 8 - 10 = -2 2 - 2/12 = (2.166) $f'(x) = 3x^2$ f'(x) = 3(4) = 12apply Mentin's Milled: 7 - f(x)/f(x) newx f(2.1667) = 2.1667 -10 = 0.1718 f(2.1667) = 3(2.1667) = 45892 14.0633 2.1667 - 0.1718/9.3397 = 2.1545 H4. Repeat H3 in Matlab.

H5. Discussi. Why was Newton Method riverted? This gives a way to find decide approx for exact value like 360. Merce supretently, not every ffx)=0 has a "closed form solution", so numerical approximation is the last we can do.



Slope = f'(x) = rise/rin f'(x) = f(x)/runCrossing run f'(x) = f(x)Divide f'(x) run = f(x)/f'(x) That was I iteratu. Lets repeat.